

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 4295 (1983): Locking Dogs (Catches) with Springs [PGD 2: Machine Tool Elements and Holding Devices]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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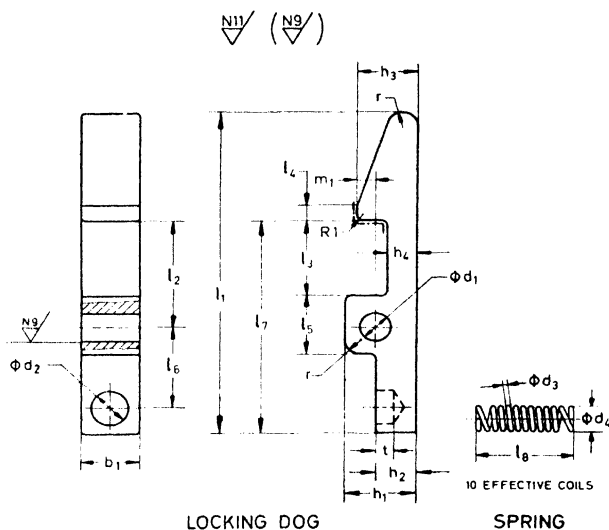
Indian Standard

SPECIFICATION FOR  
LOCKING DOGS (CATCHES) WITH SPRINGS

(First Revision)

**1. Scope** — Covers dimensions and material requirements for locking dogs (catches) and the springs to be used with them.

**1.1** Application for locking dog with spring for fixing jig plate and different methods of providing lugs to fix locking dogs have been shown at Appendix A.

**2. Dimensions**

LOCKING DOG

SPRING

All dimensions in millimetres.

Locking Dog																	Spring		
$l_1$	$b_1$	$d_1$	$d_2$	$h_1$	$h_2$	$h_3$	$h_4$	$l_2$	$l_3$	$l_4$	$l_5$	$l_6$	$l_7$	$m_1$	$t$	$r$	$d_3$	$d_4$	$l_8$
	0-0.2	E9						$\pm 0.1$											
50	8	4	5.5	9.5	5.5	8	4	16	10	2	9.5	12	32	2.5	2	1.6	0.63	4	14
60	10	5	6.3	12	7	10	5	20	14	3	11	15	40	3	3	2.5	0.8	5	17.5
80	14	6	8	15	9	14	7	30	22	5	14	23	60	5	5	4	1	6.3	21

**Note** — Dimensional deviation for untoleranced dimensions shall be Medium Class in accordance with IS : 2102 (Part 1)-1980 'General tolerances for dimensions and form and position: Part 1 General tolerances for linear and angular dimensions (second revision)'.

**3. Designation** — A locking dog having length  $l_1 = 60$  mm shall be designated as :  
LOCKING DOG 60 IS : 4295

Adopted 14 March 1983

© October 1983, BIS

Gr 2

# IS : 4295 - 1983

## 4. Material and Hardness

**4.1 Locking Dogs** — Steel conforming to IS : 4432-1967 'Specification for case hardening steel', hardened to a hardness of 680 HV, Min.

**4.2 Spring to be Used With Locking Dogs** — Spring steel conforming to IS : 4454 (Part 1)-1975 'Specification for steel wires for cold formed springs : Part I Patented and cold drawn steel wires—unalloyed (first revision)'.

**5. Finish** — The locking dogs shall be free from cracks, pits and other defects.

**6. Preservation and Packing** — Locking dogs shall be given a suitable anticorrosive surface treatment at the time of despatch and shall be packed in accordance with best trade practice.

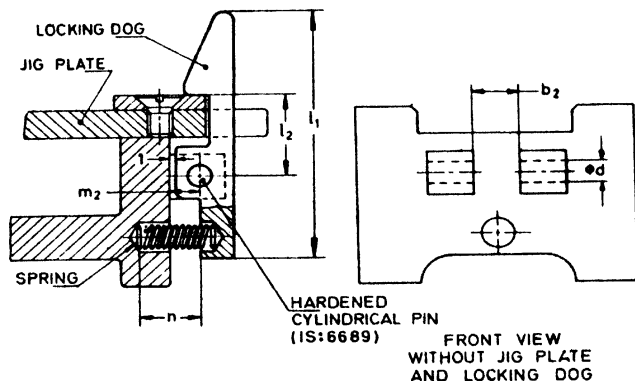
**7. Marking** — The locking dogs shall be marked at an appropriate place with the length and the manufacturer's name or trade-mark.

**7.1 Certification Marking** — Details available with the Bureau of Indian Standards.

## APPENDIX A

(Clause 1.1)

### A-1. Application of Locking Dog with Spring for Fixing Jig Plate



All dimensions in millimetres.

$l_1$	$b_2$ $+0.2$ $0$	$d$ H7	$l_2$	$m_2$	$n$
50	8	4	16	5	10
60	10	5	20	6	11
80	14	6	30	7	12

**AMENDMENT NO. 2 AUGUST 1996  
TO  
IS 4295 : 1983 SPECIFICATION FOR LOCKING  
DOGS ( CATCHES ) WITH SPRINGS**

*( First Revision )*

*( Page 2, clause 4.1 )* — Substitute the following for the existing clause:

**“4.1 Locking dogs** — Steel conforming to IS 4432 : 1988 ‘Specification for case hardening steels (*first revision*)’ hardened to a hardness of 680 HV, Min’.”

( PE 02 )

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Reprography Unit, BIS, New Delhi, India

**AMENDMENT NO. 1 JULY 1988**

**TO**

**IS:4295-1983 SPECIFICATION FOR LOCKING DOGS  
(CATCHES) WITH SPRINGS**

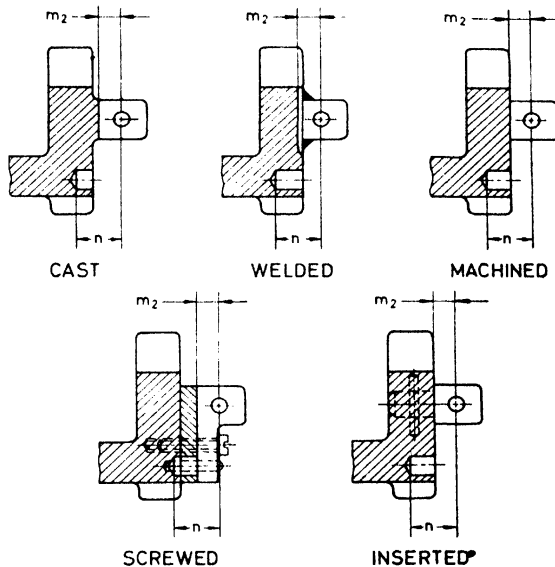
**(First Revision)**

**(Page 2, clause 4.1) - Substitute the following  
for the existing clause:**

**"4.1 Locking Dogs - Steel conforming to  
IS:4432-1967 'Specification for case hardening  
steel'. Nose of catch hardened, as bounded by chain  
dotted line (\_\_\_\_\_) (see Fig. in 2), to have  
a minimum hardness of 680 HV."**

**(EDC 11)**

**Reprography Unit, BIS, New Delhi, India**

**A-2. Different Methods of Providing Lugs to Fix Locking Dogs****EXPLANATORY NOTE**

This standard was first issued in 1967 and was based on DIN 6310-1931. Consequent upon the revision of DIN 6310 and experience gained in implementation of the standard, the committee responsible for the preparation of this standard decided to revise the same.

In this revision, the following changes have been incorporated :

- The length  $l_1 = 45$  which was included in the earlier version of the Indian Standard and is also included in DIN 6310-1969, has been replaced by  $l_1 = 50$ .
- An application example for locking dogs and different methods of providing lugs to fix the locking dogs have been included.

While preparing this standard, assistance has been derived from DIN 6310-1969 'Spring loaded catch for jigs', issued by the Deutsches Institut für Normung (DIN).